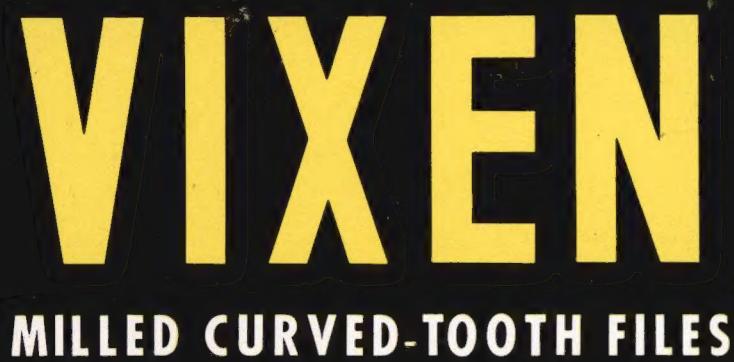


AUTOMOTIVE FILES & TOOLS

The ORIGINAL and still the BEST...

The logo for Vixen milled curved-tooth files, featuring the word "VIXEN" in a large, bold, yellow sans-serif font on a black circular background. Below "VIXEN", the text "MILLED CURVED-TOOTH FILES" is written in a smaller, white sans-serif font.

VIXEN FILES
(Milled Curved-Tooth)
Pages 2-3

**HACK SAW
BLADES**
Page 5

NUCUT FILES
(American Pattern)
Page 4

**BODY
BUMPING
FILES**
Page 6

**IGNITION
FILES**
Page 5

HAMMERS
Page 6

HELLER TOOL CO.



America's Oldest File Manufacturer
NEWCOMERSTOWN, OHIO
Subsidiary of Simonds Saw and Steel Co.

VIXEN

Milled Curved-Tooth

RIGID TANGED FILES

Originated by Heller Tool Co. over 35 years ago, the Vixen still stands as the greatest single improvement ever made in metal finishing files. The Milled Curved Teeth of Vixen work like miniature milling cutters . . . and almost as fast. The forward slant or undercut of Vixen teeth give the file a definite cutting action. Vixen's keen teeth bite deep and curl off long filings with every stroke. Vixen cuts faster, freer, smoother. It's the original and still the best.

FLAT WITH TANG



SIZE	CUT
8" x 1 $\frac{3}{16}$ " x 1 $\frac{1}{64}$ "	ST
10" x 1" x 7 $\frac{1}{32}$ "	ST

SIZE	CUT
12" x 1 $\frac{3}{32}$ " x 1 $\frac{1}{64}$ "	ST
14" x 1 $\frac{1}{32}$ " x 5 $\frac{1}{16}$ "	ST

FLAT UTILITY WITH TANG



SIZE	CUT
8" x 1 $\frac{3}{16}$ " x 1 $\frac{1}{64}$ "	One side ST, one side S
10" x 1" x 7 $\frac{1}{32}$ "	One side ST, one side S

SIZE	CUT
12" x 1 $\frac{3}{32}$ " x 1 $\frac{1}{64}$ "	One side ST, one side S
14" x 1 $\frac{1}{32}$ " x 5 $\frac{1}{16}$ "	One side ST, one side S

HALF ROUND WITH TANG



SIZE	CUT
8" x 2 $\frac{1}{32}$ " x 1 $\frac{1}{4}$ "	ST
10" x 1 $\frac{3}{16}$ " x 5 $\frac{1}{32}$ "	ST

SIZE	CUT
12" x 1 $\frac{1}{8}$ " x 3 $\frac{1}{8}$ "	ST
14" x 1 $\frac{1}{32}$ " x 2 $\frac{1}{64}$ "	ST

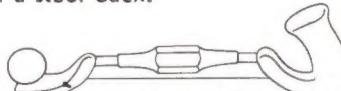
VIXEN plain blade files

use with an aluminum adjustable file holder, an appropriate wooden holder, or a steel back.

VIXEN FLEXIBLE FILES

Flexible files are generally used with an adjustable file holder. Flexible files are particularly adapted to all types of auto body and sheet metal work. They have teeth on both sides, and can be adjusted in a file holder to file flat, outward (convex), or inward (concave). Use with Flat Holder No. 416, Adjustable Aluminum Holder No. 472, or Wooden Holder No. V-1.

The tangless, or blade type Vixen, is designed for



HOLDER 472



HOLDER 416



HOLDER V-1



HOLDER V-2



SPECIAL SEALED PACKAGE

All 14-inch Flexible files are sealed in individual envelopes at the factory for buyers' protection against imitation, inferior and resharpened files.

HALF ROUND SHELL



SIZE	CUT
14" x 1 $\frac{15}{32}$ " x 1 $\frac{1}{8}$ "	ST

Use with Wooden Holder No. V-2

HALF OVAL SHELL



SIZE	CUT
14" x 1 $\frac{15}{32}$ " x 1 $\frac{1}{64}$ "	ST

Use with Wooden Holder No. V-2

VIXEN

Milled Curved-Tooth



No. 154—Reveal Flat Square Cornered Vixen, one edge bent. $2\frac{3}{4}$ " long.

No. 152—Reveal Tool (Holder only). Made of brass with hinged center piece. A threaded bolt with wing nut anchors the file in working position. 7" long.



No. 155—Reveal Round Cornered Vixen. $2\frac{3}{4}$ " long.

Set No. 158 includes holder and No. 155 Vixen file.



No. 156—Reveal Half Round Bent Shell Vixen. $2\frac{3}{4}$ " long.

Set No. 159 includes holder and five assorted Vixen files.



No. 153—Reveal Half Round Shell Vixen. $2\frac{3}{4}$ " long.



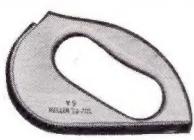
No. 157—Reveal Half Round Molding Vixen. $2\frac{3}{4}$ " long.



NO. V-7 WOODEN HOLDER FOR
No. 332—7" x $\frac{5}{8}$ " Special Window Reveal Flat file.



NO. V-8 WOODEN HOLDER FOR
No. 1389—7" x $\frac{5}{8}$ " Special Window Reveal Molding file.



NO. V-9 WOODEN HOLDER FOR
No. 1386—7" x $\frac{5}{8}$ " Special Window Reveal Shell file.



NO. V-10 WOODEN HOLDER FOR
No. 996—12" Special Curved Reveal Shell file.

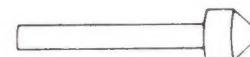
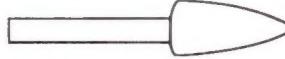
HELLER

rotary files

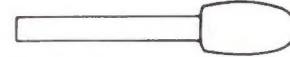
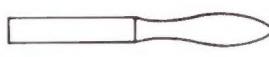


POPULAR ASSORTMENT NO. 45
(GROUND-FROM-SOLID)

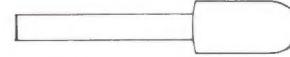
FOR COMPLETE LINE OF ROTARY FILES SEE CATALOG No. R-48



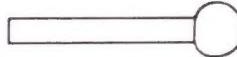
HG-21-M



HG-38-M



HG-62-M



HG-94-M



HG-96-M

HELLER NUCUT®

American Pattern FILES

MILL BASTARD



SIZE

4" x 7/16" x 5/64"

6" x 19/32" x 7/64"

8" x 25/32" x 9/64"

SIZE

10" x 31/32" x 11/64"

12" x 1-5/32" x 7/32"

14" x 1-5/16" x 1/4"

2 ROUND EDGES

Made in 8" and 10"
Bastard Cut Only

HALF ROUND BASTARD



SIZE

6" x 19/32" x 5/32"

8" x 3/4" x 7/32"

10" x 15/16" x 9/32"

SIZE

12" x 1-1/8" x 11/32"

14" x 1-9/32" x 13/32"

FLAT BASTARD



SIZE

4" x 15/32" x 3/32"

6" x 5/8" x 5/32"

8" x 25/32" x 7/32"

SIZE

10" x 31/32" x 1/4"

12" x 1-5/32" x 9/32"

14" x 1-11/32" x 5/16"

ROUND BASTARD



SIZE

4" x 5/32"

6" x 7/32"

SIZE

8" x 5/16"

10" x 3/8"

SIZE

12" x 1/2"

14" x 5/8"

SQUARE BASTARD



SIZE

4" x 5/32"

6" x 7/32"

SIZE

8" x 5/16"

10" x 3/8"

SIZE

12" x 1/2"

14" x 5/8"

THREE SQUARE BASTARD



SIZE

6" x 15/32"

SIZE

8" x 5/8"

SIZE

10" x 3/4"

KNIFE BASTARD



SIZE

6" x 21/32" x 5/32"

SIZE

8" x 27/32" x 3/16"

ROTARY MOWER AND GARDEN TOOL



SIZE 7" x 3/4" x 1/8"

MULTI-KUT, FLAT



SIZE

8" x 25/32" x 7/32"

10" x 31/32" x 1/4"

SIZE

12" x 1-5/32" x 9/32"

14" x 1-11/32" x 5/16"

MULTI-KUT, HALF ROUND



SIZE

8" x 3/4" x 7/32"

10" x 15/16" x 9/32"

SIZE

12" x 1-1/8" x 11/32"

14" x 1-9/32" x 13/32"

MULTI-KUT, SQUARE



SIZE

8" x 5/16"

10" x 3/8"

SIZE

12" x 1/2"

14" x 5/8"

CHAIN SAW, ROUND



SIZE

8" x 3/16"

8" x 7/32"

8" x 1/4"

SIZE

8" x 9/32"

8" x 5/16"

8" x 3/8"

CHAIN SAW, NARROW MILL No. 3084



SIZE 8" x 5/8" x 3/32"

CHAIN SAW, LOZENGE No. 3365



SIZE 6" x 11/32" x 7/32"

SLIM TAPER



SIZE

5" x 9/32"

6" x 11/32"

SIZE

8" x 15/32"

10" x 5/8"

EXTRA SLIM TAPER



SIZE

5" x 15/64"

6" x 9/32"

SIZE

7" x 5/16"

8" x 13/32"

DOUBLE EXTRA SLIM TAPER



SIZE

5" x 3/16"

6" x 7/32"

SIZE

7" x 1/4"

8" x 5/16"

ignition files



5" PATENTED TUNGSTEN POINT FILES (POCKET CLIP)

Clip handle fits over pocket flap for easy carrying. A necessary tool for every auto mechanic. Used for cleaning spark plugs and dressing contact points. Packed in boxes containing a dozen files. Also mounted on cards (one dozen to a card).



5" REGULAR TUNGSTEN POINT FILES

For cleaning distributor points and spark plugs. Also used in cleaning contact points of magnetos, switches, electric bells, etc. Made with chisel tip for entering gaps and slots. Packed in boxes containing one dozen files and also mounted on cards (one dozen files to a card).



5" VOLTAGE REGULATOR FILES No. 2470

For voltage regulators, circuit breakers, relay and other electrical contact points requiring an extra-thin file with fine cut and smooth finish. 5" over-all— $5\frac{5}{16}$ " wide, approximately .015" thick. Packed on counter display cards only, one dozen on card—twelve cards to a carton.

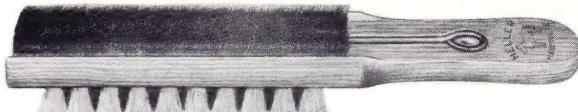


6" VOLTAGE REGULATOR RIFFLERS No. 1997

Recommended for removing pits and corrosion from contact points and also for filing them to a smooth finish. Length 6" over-all. Packaged in cardboard tubes to prevent breakage. One dozen to a box.

file cards

COMBINATION FILE CARD AND BRUSH



FILE CARD



When file teeth are clogged with filings—slipping, scratching and inefficient cutting result. Clean your coarse file frequently with a file card (specially designed fine wire brush), and use the brush on your fine cut file. The combination file card and brush provides both card and brush, with a specially designed pick, in one handy cleaning tool.

file handles



SIZES

# 104	4" for small files
# 106	4-1/4" for files 4" to 8"
# 108	5" for files 8" to 10"
# 110	5-1/2" for files 12" to 14"
# 112	6" for files 16" to 20"

Standard carton contains 1/4 gross of a size.

HELLER NUCUT

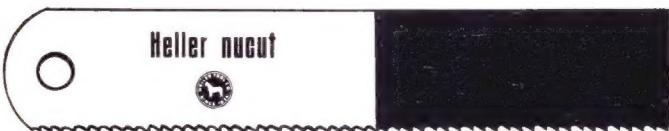
CHOOSE THE RIGHT EDGE

Each of the three types of Heller Hand Blades is available in "Hard-Edge" or "All-Hard".

"HARD-EDGE" Blades are best for general purpose cutting. They are heat treated only on the tooth edge. The body of the blade remains tough and flexible to resist breakage under severe conditions.

"ALL-HARD" Blades are heat treated for uniform hardness throughout. This gives them the stiffness preferred by skilled mechanics for straight, true cuts. They are recommended only where work is securely held.

hack saw blades



STANDARD STEEL BLADES . . . for general all-purpose cutting by machinists, mechanics, electricians, plumbers and maintenance men.

HIGH SPEED "M"-HAX BLADES . . . for fast, dependable cutting and long life on a variety of steels.

HIGH SPEED "T"-HAX BLADES . . . with the heat resistant property necessary for cutting tough alloy steels.

HELLER HAND HACK SAW BLADES

Attractively Packed 100 Blades in a Box

SPECIFICATIONS			Standard Steel All-Hard and Hard-Edge	HIGH SPEED "M"- HAX All-Hard and Hard-Edge	HIGH SPEED "T"- HAX All-Hard and Hard-Edge
Length and Width	Thickness	Teeth per Inch	Weight per 100 Blades	Weight per 100 Blades	Weight per 100 Blades
10" x 1/2"	.025"	18-24-32	3 1/2 lbs.	4 1/4 lbs.	3 1/4 lbs.
12" x 1/2"	.025"	14-18-24-32	4 1/2 lbs.	4 3/4 lbs.	4 lbs.

This list comprises all types, sizes, and tooth spacings that will be regularly carried in stock. Anything differing from these Hack Saws will be considered as special and will not be manufactured except in cases of urgent necessity.

HELLER

automotive hammers



BALL PEIN

Drop forged from highest quality tool steel, tempered and correctly balanced, these hammers are available either in full polish finish or black baked enamel finish, as illustrated. The letter "B" following the number indicates "black" finish. Also available in Excelsior Grade, indicated by letter "C", with black baked enamel forge finish.

NO.	NO.	NO.	WEIGHT	PACKED
797	—	—	2 oz.	1/2 doz. 1 1/4 lbs.
798	798B	798C	4 oz.	1/2 doz. 2 1/2 lbs.
800	800B	800C	8 oz.	1/2 doz. 5 lbs.
801	801B	801C	12 oz.	1/2 doz. 6 1/2 lbs.
802	802B	802C	1 lb.	1/2 doz. 8 1/2 lbs.
803	803B	803C	1 1/4 lbs.	1/2 doz. 10 1/4 lbs.
804	804B	804C	1 1/2 lbs.	1/2 doz. 12 lbs.
806	806B	806C	2 lbs.	1/2 doz. 15 1/2 lbs.
808	808B	808C	2 1/2 lbs.	1/2 doz. 19 lbs.
810	810B	810C	3 lbs.	22 lbs.

UPHOLSTERERS



No. 404A
7 oz. Mag-
netic Trim-
mer's or Uphol-
sterer's Hammer,
Full Polished —
with Claw

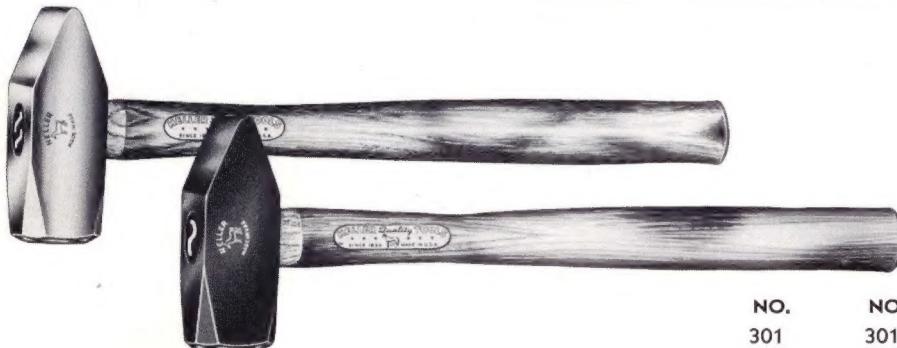
Alloy steel; one end of
head magnetized; Head
5 1/2" long; overall length
11"; packed 1/2 doz.;
Wt. 5 lbs. 10 oz.

No. 404B
Polished, without claw.

No. 404D Black finish, with claw

No. 404E Black finish, without claw

HAND OR TIRE



NO.	NO.	WEIGHT	PACKED
301	301B	2 lbs.	1/3 doz. 10 3/4 lbs.
302	302B	2 1/2 lbs.	1/3 doz. 13 lbs.
303	303B	3 lbs.	1/3 doz. 14 3/4 lbs.

body bumping files



No. 2088

Flat Coarse Cut

Length 12"; width 1 3/8"; Wt.
1 lb. 4 oz. each; packed 1/2
doz.; Wt. 6 lbs. 12 oz.



No. 2089

Flat Medium Cut

Length 12"; width 1 3/8"; Wt.
1 lb. 4 oz. each; packed 1/2
doz.; Wt. 6 lbs. 12 oz.



No. 2090

Half Round Medium Cut

Length 12"; width 1 3/8"; Wt. 1
lb. 4 oz. each; packed 1/2 doz.;
Wt. 6 lbs. 12 oz.

Assortment No. 2612 — One each of the above, packed 1/4 of a dozen. Wt. 3 lbs. 12 oz.